

## STUTI Standard Operating Procedures

1. Students should register themselves for placements with Department Coordinator of STUTI team in the beginning of the 6<sup>th</sup> Semester.
2. Department Coordinator of STUTI will collect data from students and create student list with aggregate and submit to the Placement Officer
3. Placement training program will be organised for all the students, it is mandatory to undergo training program if students wants to appear in selection process,
4. Based on the company request students database after obtaining willingness from students will be shared with the company.
5. Campus recruitment dates will be confirmed based on the mutual convenient days.
6. Students will be informed about the company visit three days in advance.
7. Results will be announced to the students at the end of the recruitment process.
8. Once the students receive the offer letter by mail, they have been asked to submit the same to the Department Coordinator of STUTI.

Placements offered by our college sections into two categories as

General Placements

Dream Slots

### General Placements:

This involves companies with salary package upto 4.5 lakhs p.a.

Companies adhering to SHARING SLOT offer placements like Mpahsis and also other companies visiting for recruitment in the salary up to 4.5 Lakhs P.A.

The eligibility criteria would be 10th, 12th - 60 % each and CGPA of 6.0 and above with no standing arrears. Eligibility could vary as per company's requirements.

### Dream Slots:

Dream slot companies are like thought works, Wipro R& D, Samsung R&D, Hewlett Packard and IBM. The salary range is from 4.5 Lakhs to 8 Lakhs per annum.

The eligibility criteria would be 10th, 12th – 70 % each and CGPA of 7.0 and above with no standing arrears.

  
**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

Phone: 080-28372800/1/2

www.sapthagiri.edu.in

Fax: 080-28372797

If Students selected in this category cannot appear for other companies unless the pay is above 8 Lakh P.A.

Normally students selected in this offer will get internship in the final semester.

Convener

**SUMA VISHWANATH**

Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

Principal  
Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

From,

Convenor  
STUTI (Career Guidance and Placement Cell)  
Sapthagiri College of Engineering  
Bangalore - 560057.

Through

IQAC COORDINATOR  
Sapthagiri College of Engineering  
Bangalore - 560057.

To,

THE PRINCIPAL  
Sapthagiri College of Engineering  
Bangalore - 560057.

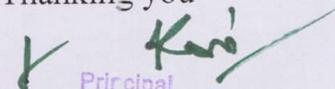
Respected Sir,

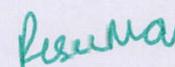
Subject: Requisition to conduct training on Quantitative/ Logical reasoning/verbal aptitude and soft skill training for final years from 4<sup>th</sup> July 2016 to 6<sup>th</sup> Aug 2016.

In the benefit of student welfare STUTI is Conducting training on Quantitative/ Logical reasoning/verbal aptitude and soft skill training for final years from 4<sup>th</sup> July 2016 to 6<sup>th</sup> Aug 2016. So, we request you to kindly approve for the above.

| Sl.No. | Particular/Head                         | Amount in Rupees  |
|--------|---|-------------------|
| 1      | Honorarium                              | 8,75,000          |
| 2      | Breakfast, Tea, Lunch, High Tea         | 20,000/-          |
| 3      | Certificates                            | 8000/-            |
| 4      | Miscellaneous                           | 2233/-            |
|        | <b>Total Amount Allocated in rupees</b> | <b>9,05,233/-</b> |

Thanking you

  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

  
Convenor

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

27/06/2016

## STUTI CIRCULAR

This is to inform that all STUTI team members to attend the meeting held on 30/06/2015 at 1:30PM in Principal cubical.

### Agenda of the meeting:

1. To Discuss about resource person for training, and to finalize Conduction dates.
2. To Discuss and finalize about Course content.

| Sl. No. | Name                   | Designation         |        | Signature           |
|---------|------------------------|---------------------|--------|---------------------|
| 1       | Dr. Ravi. K. N         | Professor           | Member | <i>Ravi</i>         |
| 2       | Prof .Prerana Chaithra | Associate Professor | Member | <i>Prerana</i>      |
| 3       | Prof .Shobha Hugar     | Asst. Professor     | Member | <i>Shobha</i>       |
| 4       | Prof. Shobha G         | Asst. Professor     | Member | <i>Shobha</i>       |
| 5       | Prof .Madhushree       | Asst. Professor     | Member | <i>Madhu</i>        |
| 6       | Prof .Madhu Kumar Y C  | Asst. Professor     | Member | <i>Madhu</i>        |
| 7       | Rachel britto          | Student             | Member | <i>Racheta</i>      |
| 8       | Hemantha kumar M       | Student             | Member | <i>Hemanthkumar</i> |

*Suma*

Convener

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

*f.kar*

PRINCIPAL

Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

*B*

Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

30/06/2016

## STUTI MINUTES OF MEETING

The meeting was held by STUTI (Career Guidance and Placement Cell) on 30/06/2016 at 1:30PM in Principal cubical.

### Agenda of the meeting:

To Conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for final years from 4/7/2016 to 6/8/2016.

1. Discussed about resource person, conduction date (4/7/2016 to 6/8/2016) and decided Resource person from ladder consultancy service pvt ltd.
2. Discussed about Course content and finalized. Course Schedule and Contents are as shown in the table
3. Informed STUTI team to coordinate with ladder consultancy service pvt ltd to conduct training smoothly.

| DATES    | SESSION 1   | SESSION 2   |
|----------|---|---|
| 04/07/16 | Introduction to the Quantitative Aptitude <ul style="list-style-type: none"> <li>• Age</li> </ul> | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Calendars</li> </ul>       |
| 05/07/16 | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Decimal fractions</li> </ul>       | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Numbers</li> </ul>         |
| 06/07/16 | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Permutations</li> </ul>            | Quantitative Aptitude <ul style="list-style-type: none"> <li>• combinations</li> </ul>    |
| 07/07/16 | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Average</li> </ul>                 | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Simple interest</li> </ul> |
| 08/07/16 | Quantitative Aptitude<br>Compound interest  | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Clock</li> </ul>           |

*Suma*

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

*J. Kani*

Principal  
Sapthagiri College of Engineering  
14/E, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

|          |   |  |
|----------|---|--|
| 09/07/16 | Quantitative Aptitude<br>• Area percentage                              | Quantitative Aptitude<br>• HCF and LCM                                   |
| 11/07/16 | Quantitative Aptitude<br>• Profit, Loss                                 | Quantitative Aptitude<br>• Discount                                      |
| 13/07/16 | Quantitative Aptitude<br>• Time & Distance                              | Quantitative Aptitude<br>• Time & Work                                   |
| 14/07/16 | Quantitative Aptitude<br>• Partnership                                  | Quantitative Aptitude<br>• Ratio & Proportion                            |
| 15/07/16 | Quantitative Aptitude<br>• Mixture & Alligation                         | Quantitative Aptitude<br>• Mensuration                                   |
| 16/07/16 | Quantitative Aptitude<br>• Pipe & Cisterns                              | Quantitative Aptitude<br>• Boat & Stream                                 |
| 18/07/16 | Quantitative Aptitude<br>• Work & Wages<br>• Data Interpretation        | Quantitative Aptitude<br>• Probability<br>• train                        |
| 19/07/16 | Logical reasoning<br>• Sitting Arrangement                              | Logical reasoning<br>• Ranking Arrangement                               |
| 20/07/16 | Logical reasoning<br>• Verbal Classifications<br>• Direction & Distance | Logical reasoning<br>• Number Series<br>• Dice                           |
| 21/07/16 | Logical reasoning<br>• Statement and Conclusion<br>• Missing Numbers    | Logical reasoning<br>• Statement and Assumption<br>• Counting of Figures |
| 22/07/16 | Verbal Aptitude<br>• Spotting errors<br>• Analogy                       | Verbal Aptitude<br>• Antonyms<br>• synonyms                              |
| 23/07/16 | Verbal Aptitude<br>• Comprehension                                      | Verbal Aptitude<br>• Sentence formation                                  |
| 25/07/16 | Introduction to Communication Soft Skill<br>• Verbal Communication      | Communication Skill<br>• Non-Verbal Communication                        |
| 26/07/16 | • Visual Communication<br>• Written Communication                       | • Active Listening<br>• Clarity  |
| 27/07/16 | • Confidence<br>• Interviewing  | • Compound interest<br>• Clock   |
| 28/07/16 | • Negotiation   | • Personal Branding  |
| 29/07/16 | • Persuasion  | • Presentation Skills  |

*Suma*  
**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

*J. K. K.*  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

|          |                          |                           |
|----------|--------------------------|---------------------------|
| 30/07/16 | • Public Speaking        | • Story telling           |
| 01/08/16 | • Diplomacy              | • Empathy                 |
| 02/08/16 | • Friendliness           | • Humor                   |
| 03/08/16 | • Networking             | • Patience                |
| 04/08/16 | • Positive Reinforcement | • Sensitivity & Tolerance |
| 05/08/16 | • Group discussion       | • Group discussion        |
| 06/08/16 | • Mock Interview         | • Mock Interview          |

*Suma*

Convener

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

*J. Karth*  
PRINCIPAL  
Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

*B*  
Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057



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Phone: 080-28372800/1/2

www.sapthagiri.edu.in

Fax: 080-28372797

## NOTICE

It is hereby informed to all final year students, that the STUTI team of Sapthagiri College of engineering is organizing training on Quantitative/ logical reasoning/verbal aptitude and soft skill training from 4/7/2016 to 6/8/2016. So, all the students are requested to register their names to department coordinator of STUTI team.

Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

Convenor:

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

## NOTICE

This to inform all final year students that Schedule of Quantitative/ logical reasoning/verbal aptitude and soft skill training is as follows.

|          |  |   |
|----------|--|---|
| 04/07/16 | Introduction to the Quantitative Aptitude<br>• Age | Quantitative Aptitude<br>• Calendars          |
| 05/07/16 | Quantitative Aptitude<br>• Decimal fractions       | Quantitative Aptitude<br>• Numbers            |
| 06/07/16 | Quantitative Aptitude<br>• Permutations            | Quantitative Aptitude<br>• combinations       |
| 07/07/16 | Quantitative Aptitude<br>• Average                 | Quantitative Aptitude<br>• Simple interest    |
| 08/07/16 | Quantitative Aptitude<br>• Compound interest       | Quantitative Aptitude<br>• Clock              |
| 09/07/16 | Quantitative Aptitude<br>• Area                    | Quantitative Aptitude<br>• HCF and LCM        |
| 11/07/16 | Quantitative Aptitude<br>• Profit, Loss            | Quantitative Aptitude<br>• Discount           |
| 13/07/16 | Quantitative Aptitude<br>• Time & Distance         | Quantitative Aptitude<br>• Time & Work        |
| 14/07/16 | Quantitative Aptitude<br>• Partnership             | Quantitative Aptitude<br>• Ratio & Proportion |
| 15/07/16 | Quantitative Aptitude<br>• Mixture & Alligation    | Quantitative Aptitude<br>• Mensuration        |
| 16/07/16 | Quantitative Aptitude<br>• Pipe & Cisterns         | Quantitative Aptitude<br>• Boat & Stream      |
| 18/07/16 | Quantitative Aptitude<br>• Work & Wages            | Quantitative Aptitude<br>• Probability        |
| 19/07/16 | Logical reasoning<br>• Sitting Arrangement         | Logical reasoning<br>• Ranking                |
| 20/07/16 | Logical reasoning<br>• Verbal Classifications      | Logical reasoning<br>• Number Series          |
| 21/07/16 | Logical reasoning<br>• Statement and Conclusion    | Logical reasoning<br>• Statement and          |
| 22/07/16 | Verbal Aptitude<br>• Spotting errors               | Verbal Aptitude<br>• Antonyms                 |
| 23/07/16 | Verbal Aptitude<br>• Comprehension                 | Verbal Aptitude<br>• Sentence formation       |

*K. K. K.*

Principal

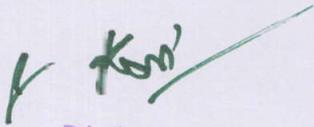
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14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru – 560 057

*Suma*

**SUMA VISHWANATH**

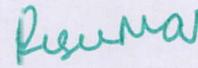
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Sapthagiri College of Engineering  
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Sciences & Research Centre

|          |   |  |
|----------|---|--|
| 25/07/16 | Introduction to Communication Soft Skill <ul style="list-style-type: none"> <li>• Verbal Communication</li> </ul> | Communication Skill <ul style="list-style-type: none"> <li>• Non-Verbal Communication</li> </ul> |
| 26/07/16 | <ul style="list-style-type: none"> <li>• Visual Communication</li> <li>• Written Communication</li> </ul>         | <ul style="list-style-type: none"> <li>• Active Listening</li> <li>• Clarity</li> </ul>          |
| 27/07/16 | <ul style="list-style-type: none"> <li>• Confidence</li> <li>• Interviewing</li> </ul>                            | <ul style="list-style-type: none"> <li>• Compound interest</li> <li>• Clock</li> </ul>           |
| 28/07/16 | <ul style="list-style-type: none"> <li>• Negotiation</li> </ul>   | <ul style="list-style-type: none"> <li>• Personal Branding</li> </ul>                            |
| 29/07/16 | <ul style="list-style-type: none"> <li>• Persuasion</li> </ul>  | <ul style="list-style-type: none"> <li>• Presentation Skills</li> </ul>                          |
| 30/07/16 | <ul style="list-style-type: none"> <li>• Public Speaking</li> </ul>   | <ul style="list-style-type: none"> <li>• Story telling</li> </ul>                                |
| 01/08/16 | <ul style="list-style-type: none"> <li>• Diplomacy</li> </ul>   | <ul style="list-style-type: none"> <li>• Empathy</li> </ul>                                      |
| 02/08/16 | <ul style="list-style-type: none"> <li>• Friendliness</li> </ul>  | <ul style="list-style-type: none"> <li>• Humor</li> </ul>  |
| 03/08/16 | <ul style="list-style-type: none"> <li>• Networking</li> </ul>  | <ul style="list-style-type: none"> <li>• Patience</li> </ul>                                     |
| 04/08/16 | <ul style="list-style-type: none"> <li>• Positive Reinforcement</li> </ul>  | <ul style="list-style-type: none"> <li>• Sensitivity &amp; Tolerance</li> </ul>                  |
| 05/08/16 | <ul style="list-style-type: none"> <li>• Group discussion</li> </ul>  | <ul style="list-style-type: none"> <li>• Group discussion</li> </ul>                             |
| 06/08/16 | <ul style="list-style-type: none"> <li>• Mock Interview</li> </ul>  | <ul style="list-style-type: none"> <li>• Mock Interview</li> </ul>                               |



Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057



Convenor

**SUMA VISHWANATH**

Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre



Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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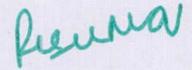
## NOTICE

STUTI team hereby informing to all final year students, to attend Scheduled test on Quantitative/ logical reasoning/verbal aptitude and soft skill training on 10/8/2016. So, all the students are requested to attend the training test without fail.



Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057



Convenor

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre



Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

## QUESTION PAPER

1. A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, then how old is B?

A. 7

B. 8

C. 9

D. 10

2. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is?

A. 14

B. 18

C. 20

D. 22

3. Six years ago, the ratio of the ages of Kunal and Sagar was 6: 5. Four years hence, the ratio of their ages will be 11: 10. What is Sagar's age at present?

A. 16

B. 18

C. 20

D. None of these

4. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is?

A. 50km

B. 56km

C. 70km

D. 80km

5. Robert is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph,

*A. Kim*

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057



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www.sapthagiri.edu.in

Fax: 080-28372797

he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.?

- A. 8 kmph  
B. 11 kmph  
C. 12 kmph  
D. 14 kmph

6. The cost price of 20 articles is the same as the selling price of  $x$  articles. If the profit is 25%, then the value of  $x$  is?

- A. 15  
B. 16  
C. 18  
D. 25

7. A shopkeeper expects a gain of 22.5% on his cost price. If in a week, his sale was of Rs. 392, what was his profit?

- A. 18.20  
B. 70  
C. 72  
D. 88.25

8. A sum of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The sum is?

- A. 650  
B. 690  
C. 698  
D. 700

9. At what rate of compound interest per annum will a sum of Rs. 1200 become Rs. 1348.32 in 2 years?

- A. 6%  
B. 6.5%  
C. 7%  
D. 7.5%

10. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the

*H. K.*  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

work if he is assisted by B and C on every third day?

- A. 12 days  
B. 15 days  
C. 16 days  
D. 18 days

11. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are?

- A. 39, 30  
B. 41, 32  
C. 42, 33  
D. 43, 34

12. A and B invest in a business in the ratio 3: 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is?

- A. Rs. 1425  
B. Rs. 1500  
C. Rs. 1537.50  
D. Rs. 1576

13. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?

- A. Sunday  
B. Saturday  
C. Friday  
D. Wednesday

14. The angle between the minute hand and the hour hand of a clock when the time is 4.20, is?

- A.  $0^\circ$   
B.  $10^\circ$   
C.  $5^\circ$   
D.  $20^\circ$

15. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
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|          |                  |                  |
|----------|------------------|------------------|
| 05/08/16 | Operating System | Operating System |
| 06/08/16 | Operating System | Operating System |

*Suma*

Group Head HRD

**SUMA VISHWANATH**

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Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
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*L. K. S.*

PRINCIPAL

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road.  
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*B*

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Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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## SCHEME

1. Answer: Option D

Explanation:

Let C's age be  $x$  years. Then, B's age =  $2x$  years. A's age =  $(2x + 2)$  years.

$$\therefore (2x + 2) + 2x + x = 27$$

$$\Rightarrow 5x = 25$$

$$\Rightarrow x = 5.$$

Hence, B's age =  $2x = 10$  years

2. Answer: Option D

Explanation:

Let the son's present age be  $x$  years. Then, man's present age =  $(x + 24)$  years.

$$\therefore (x + 24) + 2 = 2(x + 2)$$

$$\Rightarrow x + 26 = 2x + 4$$

$$\Rightarrow x = 22.$$

3. Answer: Option A

Explanation:

Let the ages of Kunal and Sagar 6 years ago be  $6x$  and  $5x$  years respectively.

$$\text{Then, } \frac{(6x + 6) + 4}{(5x + 6) + 4} = \frac{11}{10}$$

$$\Rightarrow 10(6x + 10) = 11(5x + 10)$$

$$\Rightarrow 5x = 10$$

$$\Rightarrow x = 2.$$

$\therefore$  Sagar's present age =  $(5x + 6) = 16$  years.

4. Answer: Option A

Explanation:

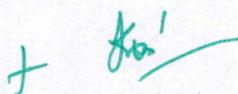
Let the actual distance travelled be  $x$  km.

$$\text{Then, } \frac{x}{10} = \frac{x + 20}{14}$$

$$\Rightarrow 14x = 10x + 200$$

$$\Rightarrow 4x = 200$$

$$\Rightarrow x = 50 \text{ km.}$$



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5. Answer: Option C

Let the distance travelled by  $x$  km.

$$\text{Then, } \frac{x}{10} - \frac{x}{15} = 2$$

$$\Rightarrow 3x - 2x = 60$$

$$\Rightarrow x = 60 \text{ km.}$$

Time taken to travel 60 km at 10 km/hr =  $\left(\frac{60}{10}\right)$  hrs = 6 hrs.

So, Robert started 6 hours before 2 P.M. *i.e.*, at 8 A.M.

$$\therefore \text{ Required speed} = \left(\frac{60}{5}\right) \text{ kmph} = 12 \text{ kmph.}$$

6. Answer: Option B

Explanation:

Let C.P. of each article be Rs. 1. C.P. of  $x$  articles = Rs.  $x$ .

S.P. of  $x$  articles = Rs. 20

Profit = Rs.  $(20 - x)$ .

$$\therefore \left(\frac{20 - x}{x} \times 100 = 25\right)$$

$$\Rightarrow 2000 - 100x = 25x$$

$$125x = 2000$$

$$\Rightarrow x = 16.$$

7. Answer: Option C

Explanation:

$$\text{C.P.} = \text{Rs. } \left(\frac{100}{122.5} \times 392\right) = \text{Rs. } \left(\frac{1000}{1225} \times 392\right) = \text{Rs. } 320$$

$$\therefore \text{ Profit} = \text{Rs. } (392 - 320) = \text{Rs. } 72.$$

8. Answer: Option C

Explanation:

$$\text{S.I. for 1 year} = \text{Rs. } (854 - 815) = \text{Rs. } 39.$$

$$\text{S.I. for 3 years} = \text{Rs. } (39 \times 3) = \text{Rs. } 117.$$

$$\therefore \text{ Principal} = \text{Rs. } (815 - 117) = \text{Rs. } 698.$$

9. Answer: Option A

Explanation:

Let the rate be R% p.a.

$$\text{Then, } 1200 \times \left(1 + \frac{R}{100}\right)^2 = 1348.32$$

$$\Rightarrow \left(1 + \frac{R}{100}\right)^2 = \frac{134832}{120000} = \frac{11236}{10000}$$

$$\therefore \left(1 + \frac{R}{100}\right)^2 = \left(\frac{106}{100}\right)^2$$

$$\Rightarrow 1 + \frac{R}{100} = \frac{106}{100}$$

$$\Rightarrow R = 6\%$$

10. Answer: Option B

Explanation:

$$\text{A's 2 day's work} = \left(\frac{1}{20} \times 2\right) = \frac{1}{10}$$

$$\text{(A + B + C)'s 1 day's work} = \left(\frac{1}{20} + \frac{1}{30} + \frac{1}{60}\right) = \frac{6}{60} = \frac{1}{10}$$

$$\text{Work done in 3 days} = \left(\frac{1}{10} + \frac{1}{10}\right) = \frac{1}{5}$$

Now,  $\frac{1}{5}$  work is done in 3 days.

$\therefore$  Whole work will be done in  $(3 \times 5) = 15$  days.

11. Answer: Option C

Explanation:

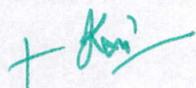
Let their marks be  $(x + 9)$  and  $x$ .

$$\text{Then, } x + 9 = \frac{56}{100}(x + 9 + x)$$

$$\Rightarrow 25(x + 9) = 14(2x + 9)$$

$$\Rightarrow 3x = 99$$

$$\Rightarrow x = 33$$



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So, their marks are 42 and 33.

12. Answer: Option B

Explanation:

Let the total profit be Rs. 100.

After paying to charity, A's share = Rs.  $\left(95 \times \frac{3}{5}\right)$  = Rs. 57.

If A's share is Rs. 57, total profit = Rs. 100.

If A's share Rs. 855, total profit =  $\left(\frac{100}{57} \times 855\right)$  = 1500.

13. Answer: Option C

Explanation:

On 31<sup>st</sup> December, 2005 it was Saturday.

Number of odd days from the year 2006 to the year 2009 = (1 + 1 + 2 + 1) = 5 day.

∴ On 31<sup>st</sup> December 2009, it was Thursday.

Thus, on 1<sup>st</sup> Jan, 2010 it is Friday.

14. Answer: Option E

Explanation:

Angle traced by hour hand in  $\frac{13}{3}$  hrs =  $\left(\frac{360}{12} \times \frac{13}{3}\right)^\circ$  = 130°.

Angle traced by min. hand in 20 min. =  $\left(\frac{360}{60} \times 20\right)^\circ$  = 120°.

∴ Required angle = (130 - 120)° = 10°.

15. Answer: Option A

Explanation:

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$$\text{Required run rate} = \left( \frac{282 - (3.2 \times 10)}{40} \right) = \frac{250}{40} = 6.25$$

16. Answer: Option B

Explanation:

$$\frac{2(l+b)}{b} = \frac{5}{1}$$

$$\Rightarrow 2l + 2b = 5b$$

$$\Rightarrow 3b = 2l$$

$$b = \frac{2}{3}l$$

Then, Area = 216 cm<sup>2</sup>

$$\Rightarrow l \times b = 216$$

$$\Rightarrow l \times \frac{2}{3}l = 216$$

$$\Rightarrow l^2 = 324$$

$$\Rightarrow l = 18 \text{ cm.}$$

17. Answer: Option C

Explanation

The word 'LEADING' has 7 different letters.

When the vowels EAI are always together, they can be supposed to form one letter.

Then, we have to arrange the letters LNDG (EAI).

Now, 5 (4 + 1 = 5) letters can be arranged in 5! = 120 ways.

The vowels (EAI) can be arranged among themselves in 3! = 6 ways.

$$\therefore \text{Required number of ways} = (120 \times 6) = 720.$$

18. Answer: Option A

Explanation:

- 23) 1056 (45  
92  
---  
136  
115  
---

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21

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$$\begin{aligned} \text{Required number} &= (23 - 21) \\ &= 2. \end{aligned}$$

19. Answer: Option D

Explanation:

$$\text{Required sum} = (2 + 3 + 5 + 7 + 11) = 28.$$

Note: 1 is not a prime number

20. Answer: Option B

Explanation:

Let the numbers be  $x$  and  $y$ .

Then,  $xy = 120$  and  $x^2 + y^2 = 239$ .

$$\therefore (x + y)^2 = x^2 + y^2 + 2xy = 239 + (2 \times 120) = 529$$

$$\therefore x + y = 529 = 23.$$

21. Answer: Option C

Since first and second varieties are mixed in equal proportions.

$$\text{So, their average price} = \text{Rs.} \left( \frac{126 + 135}{2} \right) = \text{Rs.} 130.50$$

So, the mixture is formed by mixing two varieties, one at Rs. 130.50 per kg and the other at say, Rs.  $x$  per kg in the ratio 2: 2, i.e., 1: 1. We have to find  $x$ .

By the rule of alligation, we have:

Cost of 1 kg of 1<sup>st</sup> kind      Cost of 1 kg tea of 2<sup>nd</sup> kind

Rs. 130.50

Mean Price

Rs.  $x$

$(x - 153)$

Rs. 153

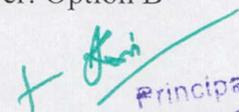
22.50

$$\therefore \frac{x - 153}{22.50} = 1$$

$$\Rightarrow x - 153 = 22.50$$

$$\Rightarrow x = 175.50$$

22. Answer: Option B

  
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Explanation:

Let the sum be Rs. F.

$$\text{Then, } \left[ P \left( 1 + \frac{10}{100} \right)^2 - P \right] = 525$$

$$\Rightarrow P \left[ \left( \frac{11}{10} \right)^2 - 1 \right] = 525$$

$$\Rightarrow P = \left( \frac{525 \times 100}{21} \right) = 2500.$$

∴ Sum = Rs. 2500.

$$\text{So, S.I.} = \text{Rs. } \left( \frac{2500 \times 5 \times 4}{100} \right) = \text{Rs. } 500$$

23. Answer: Option C

Explanation:

$$\text{S.P.} = 85\% \text{ of Rs. } 1400 = \text{Rs. } \left( \frac{85}{100} \times 1400 \right) = \text{Rs. } 1190$$

24. Answer: Option D

Explanation:

L.C.M. of 2, 4, 6, 8, 10, 12 is 120.

So, the bells will toll together after every 120 seconds (2 minutes).

In 30 minutes, they will toll together  $\frac{30}{2} + 1 = 16$  times.

25. Answer: Option D

Explanation:

  
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Bangalore-560 057

  
**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
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# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5 Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

Phone: 080-28372800/1/2

www.sapthagiri.edu.in

Fax: 080-28372797

Here,  $S = \{1, 2, 3, 4, \dots, 19, 20\}$ .

Let  $E =$  event of getting a multiple of 3 or 5 =  $\{3, 6, 9, 12, 15, 18, 5, 10, 20\}$ .

$$\therefore P(E) = \frac{n(E)}{n(S)} = \frac{9}{20}$$

*Kad*  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Main Road,  
Chikka Bengaluru - 560 057

*Kad*  
Suma Vishwanath  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

*Kad*  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Main Road,  
Bengaluru - 560 057



# Placement



STUTI  
CAREER GUIDANCE AND PLACEMENT CELL

## CERTIFICATE OF PERFORMANCE

*THIS IS TO CERTIFY THAT*

*Mr/Ms \_\_\_\_\_ has participated in  
“Quantitative/ logical reasoning/verbal aptitude and soft skill training” form  
4/7/2016 to 6/8/2016 organized by STUTI Team.*

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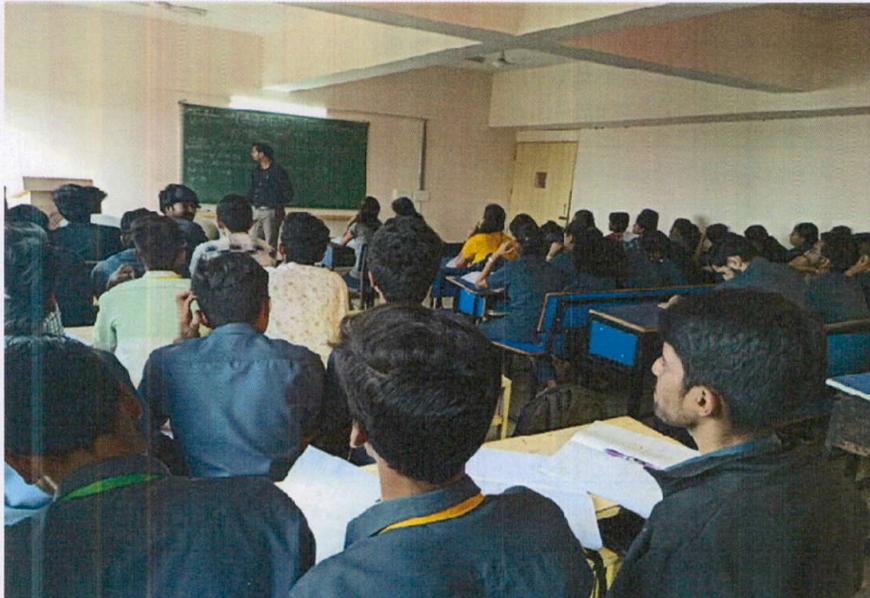
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## REPORT ON QUANTITATIVE/ LOGICAL REASONING/VERBAL APTITUDE AND SOFT SKILL TRAINING

The STUTI Team had organized the training on Quantitative/logical reasoning/verbal aptitude and soft skill training from 4/7/2016 to 6/8/2016 and all the final year students attended the training program. The program was successfully organized and carried out by STUTI Team.

The training program covered the following domains

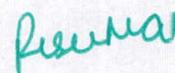
1. Communication skill
2. HR Skills
3. Group Discussion
4. Mock interview



Discussion regarding Quantitative Aptitude, Logical reasoning, Verbal Aptitude and HR Skills



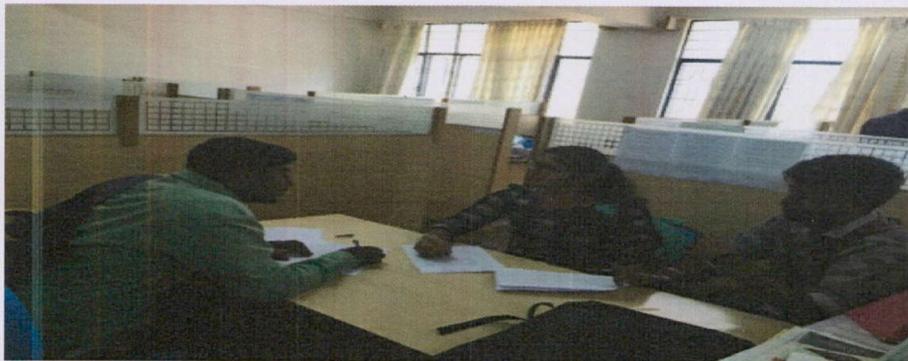
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**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre



Mock Interview done by the trainer for individual student.



Group Discussion regarding trending technologies.

*Suma*

CONVENOR

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
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PRINCIPAL

Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

*RB*  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

From,

Convenor  
STUTI (Career Guidance and Placement Cell)  
Sapthagiri College of Engineering  
Bangalore - 560057.

Through

IQAC COORDINATOR  
Sapthagiri College of Engineering  
Bangalore - 560057.

To,

THE PRINCIPAL  
Sapthagiri College of Engineering  
Bangalore - 560057.

Respected Sir,

Subject: Requisition to conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for pre final years from 28/7/2016 to 4/8/2016.

In the benefit of student welfare STUTI is Conducting training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for pre final years from 28/7/2016 to 4/8/2016. So, we request you to kindly approve for the above.

| Sl.No. | Particular/Head                         | Amount in Rupees  |
|--------|---|-------------------|
| 1      | Honorarium                              | 83,000            |
| 2      | Breakfast, Tea, Lunch, High Tea         | 8,000/-           |
| 3      | Certificates                            | 8,000/-           |
| 4      | Miscellaneous                           | 1,575/-           |
|        | <b>Total Amount Allocated in rupees</b> | <b>1,00,575/-</b> |

Thanking you

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14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

Convenor

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
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Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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21/07/2016

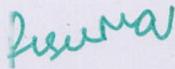
## STUTI CIRCULAR

This is to inform that all STUTI team members to attend the meeting held on 25/07/2016 at 2:00PM in Principal cubical.

### Agenda of the meeting:

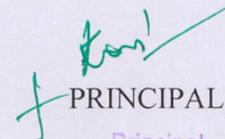
1. To Discuss about resource person for training, and to finalize Conduction dates.
2. To Discuss and finalize about Course content.

| Sl. No. | Name                   | Designation         |        | Signature   |
|---------|------------------------|---------------------|--------|---|
| 1       | Dr. Ravi. K. N         | Professor           | Member |    |
| 2       | Prof. Prerana Chaithra | Associate Professor | Member |   |
| 3       | Prof. Shobha Hugar     | Asst. Professor     | Member |  |
| 4       | Prof. Shobha G         | Asst. Professor     | Member |  |
| 5       | Prof. Madhushree       | Asst. Professor     | Member |  |
| 6       | Prof. Madhu Kumar Y C  | Asst. Professor     | Member |  |
| 7       | Rachel Britto          | Student             | Member |  |
| 8       | Hemantha kumar M       | Student             | Member |  |



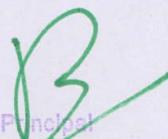
Convener

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
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Sapthagiri College of Engineering  
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Sapthagiri College of Engineering  
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Bengaluru - 560 057

25/07/2016

## STUTI MINUTES OF MEETING

The meeting was held by STUTI (Career Guidance and Placement Cell) on 25/07/2016 at 2:00PM in Principal cubical.

### Agenda of the meeting:

To Conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for final years from 28/7/2016 to 4/8/2016.

1. Discussed about resource person, conduction date (28/7/2016 to 4/8/2016) and decided Resource person from ladder consultancy service pvt ltd.
2. Discussed about Course content and finalized. Course Schedule and Contents are as shown in the table
3. Informed STUTI team to coordinate with ladder consultancy service pvt ltd to conduct training smoothly.

| DATES    | SESSION 1   | SESSION 2   |
|----------|---|---|
| 28/07/16 | Introduction to the Quantitative Aptitude <ul style="list-style-type: none"> <li>• Age &amp; Average</li> <li>• Time &amp; Distance &amp; Work</li> </ul> | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Calendars</li> <li>• Clock</li> </ul>                              |
| 29/07/16 | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Decimal fractions &amp; Numbers</li> <li>• Partnership &amp; Profit, Loss</li> </ul>       | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Ratio &amp; Proportion</li> <li>• Percentage &amp; Area</li> </ul> |
| 30/07/16 | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Compound interest &amp; Simple interest</li> <li>• Work &amp; Wages</li> </ul>             | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Combinations &amp; Discount</li> <li>• Train</li> </ul>            |
| 01/08/16 | Logical reasoning <ul style="list-style-type: none"> <li>• Missing Numbers</li> <li>• Counting of Figures</li> </ul>                                      | Logical reasoning <ul style="list-style-type: none"> <li>• Sitting Arrangement</li> <li>• Ranking Arrangement</li> </ul>          |

*Suma*  
**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

*Kesh*  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

|          |   |  |
|----------|---|--|
| 02/08/16 | <b>Introduction to Communication Soft Skill</b> <ul style="list-style-type: none"> <li>• Verbal Communication</li> <li>• Visual Communication</li> <li>• Written Communication</li> </ul> | <b>Communication Skill</b> <ul style="list-style-type: none"> <li>• Non-Verbal Communication</li> <li>• Active Listening</li> <li>• Clarity</li> </ul> |
| 03/08/16 | <ul style="list-style-type: none"> <li>• Confidence</li> <li>• Interviewing</li> <li>• Negotiation</li> </ul>   | <ul style="list-style-type: none"> <li>• Personal Branding</li> <li>• Presentation Skills</li> <li>• Story telling</li> </ul>                          |
| 04/08/16 | <ul style="list-style-type: none"> <li>• Persuasion</li> <li>• Public Speaking</li> <li>• Friendliness</li> </ul>   | <ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Mock Interview</li> </ul>   |

*Suma*

Convener

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

*J. Kar*

PRINCIPAL

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

*B*

Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057



# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

Phone: 080-28372800/1/2

www.sapthagiri.edu.in

Fax: 080-28372797

## NOTICE

It is hereby informed to all pre final year students, that the STUTI team of Sapthagiri College of engineering is organizing training on Quantitative/ logical reasoning/verbal aptitude and soft skill training from 28/7/2016 to 4/8/2016. So, all the students are requested to register their names to department coordinator of STUTI team.

Principal

Sapthagiri College of Engineering  
#14/5 Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

Convenor

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
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Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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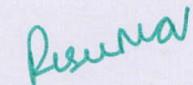
## NOTICE

This to inform all pre final year students that Schedule of Quantitative/ logical reasoning/verbal aptitude and soft skill training is as follows.

|          |  |   |
|----------|--|---|
| 28/07/16 | Introduction to the Quantitative Aptitude <ul style="list-style-type: none"> <li>• Age &amp; Average</li> <li>• Time &amp; Distance &amp; Work</li> </ul>                          | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Calendars</li> <li>• Clock</li> </ul>  |
| 29/07/16 | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Decimal fractions &amp; Numbers</li> <li>• Partnership &amp; Profit, Loss</li> </ul>                                | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Ratio &amp; Proportion</li> <li>• Percentage &amp; Area</li> </ul>               |
| 30/07/16 | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Compound interest &amp; Simple interest</li> <li>• Work &amp; Wages</li> </ul>                                      | Quantitative Aptitude <ul style="list-style-type: none"> <li>• Combinations &amp; Discount</li> <li>• train</li> </ul>                          |
| 01/08/16 | Logical reasoning <ul style="list-style-type: none"> <li>• Missing Numbers</li> <li>• Counting of Figures</li> </ul>   | Logical reasoning <ul style="list-style-type: none"> <li>• Sitting Arrangement</li> <li>• Ranking Arrangement</li> </ul>                        |
| 02/08/16 | Introduction to Communication Soft Skill <ul style="list-style-type: none"> <li>• Verbal Communication</li> <li>• Visual Communication</li> <li>• Written Communication</li> </ul> | Communication Skill <ul style="list-style-type: none"> <li>• Non-Verbal Communication</li> <li>• Active Listening</li> <li>• Clarity</li> </ul> |
| 03/08/16 | <ul style="list-style-type: none"> <li>• Confidence</li> <li>• Interviewing</li> <li>• Negotiation</li> </ul>  | <ul style="list-style-type: none"> <li>• Personal Branding</li> <li>• Presentation Skills</li> <li>• Story telling</li> </ul>                   |
| 04/08/16 | <ul style="list-style-type: none"> <li>• Persuasion</li> <li>• Public Speaking</li> <li>• Friendliness</li> </ul>  | <ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Mock Interview</li> </ul>  |

  
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Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

  
Convenor

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
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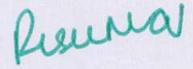
## NOTICE

STUTI team hereby informing to all pre final year students, to attend Scheduled test on Quantitative/ logical reasoning/verbal aptitude and soft skill training on 11/3/2016. Sc. all the students are requested to attend the training test without fail.



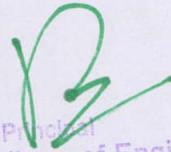
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Sapthagiri College of Engineering  
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Bengaluru - 560 057



Convenor

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
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Sapthagiri College of Engineering  
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**QUESTION PAPER**

1. The FIFO algorithm

- A. executes first the job that last entered the queue
- B. executes first the job that first entered the queue
- C. execute first the job that has been in the queue the longest
- D. executes first the job with the least processor needs
- E. None of the above

2. What is the name given to the organized collection of software that controls the overall operation of a computer?

- A. Working system
- B. Peripheral system
- C. Operating system
- D. Controlling system
- E. None of the above

3. The principle of locality of reference justifies the use of

- A. reenterable
- B. non reusable
- C. virtual memory
- D. cache memory
- E. None of the above

4. The register or main memory location which contains the effective address of the operand is known as

- A. pointer

*f. Kail*  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore-560 057



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(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2 Fax: 080-28 372797

- B. indexed register
- C. special location
- D. scratch pad
- E. None of the above

5. Assembly code data base is associated with

- A. assembly language version of the program which is created by the code generation phase and is input to the assembly phase.
- B. a permanent table of decision rules in the form of patterns for matching with the uniform symbol table to discover syntactic structure.
- C. consists of a full or partial list of the token's as they appear in the program. Created by Lexical analysis and used for syntax analysis and interpretation.
- D. a permanent table which lists all key words and special symbols of the language in symbolic form.
- E. None of the above

6. Thrashing can be avoided if

- A. the pages, belonging to the working set of the programs, are in main memory
- B. the speed of CPU is increased
- C. the speed of I/O processor is increased
- D. all of the above
- E. None of the above

7. In analyzing the compilation of PL/I program, the term "Lexical analysis" is associated with

- A. recognition of basic syntactic constructs through reductions.
- B. recognition of basic elements and creation of uniform symbols
- C. creation of more optional matrix.

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Sapthagiri College of Engineering  
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- D. use of macro processor to produce more optimal assembly code
- E. None of the above
8. Resolution of externally defined symbols is performed by
- A. Linker
- B. Loader
- C. Compiler
- D. Assembler
- E. None of the above
9. System generation:
- A. is always quite simple
- B. is always very difficult
- C. varies in difficulty between systems
- D. requires extensive tools to be understandable
- E. None of the above
10. The Memory Address Register
- A. is a hardware memory device which denotes the location of the current instruction being executed.
- B. is a group of electrical circuits (hardware), that performs the intent of instructions fetched from memory.
- C. contains the address of the memory location that is to be read from or stored into.
- D. contains a copy of the designated memory location specified by the MAR after a "read" or the new contents of the memory prior to a "write".
- E. None of the above

  
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Chikkasandra, Hesaraghatta Road  
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Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

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11. In virtual memory systems, Dynamic address translation

- A. is the hardware necessary to implement paging
- B. stores pages at a specific location on disk
- C. is useless when swapping is used
- D. is part of the operating system paging algorithm
- E. None of the above

12. Fragmentation of the file system

- A. occurs only if the file system is used improperly
- B. can always be prevented
- C. can be temporarily removed by compaction
- D. is a characteristic of all file systems
- E. None of the above

13. A non-relocatable program is one which

- A. cannot be made to execute in any area of storage other than the one designated for it at the time of its coding or translation.
- B. consists of a program and relevant information for its relocation.
- C. can itself perform the relocation of its address-sensitive portions.
- D. all of the above
- E. None of the above

14. Which of the following are (is) Language Processor(s)

- A. assembles
- B. compilers
- C. interpreters

*J. Kavi*  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bengaluru-560 057



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- D. All of the above
- E. None of the above

15. In which addressing mode the effective address of the operand is the contents of a register specified in the instruction and after accessing the operand, the contents of this register is incremented to point to the next item in the list?

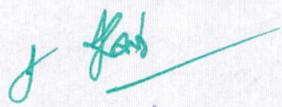
- A. index addressing
- B. indirect addressing
- C. auto increment
- D. auto decrement
- E. None of the above

16. The memory allocation scheme subject to "external" fragmentation is

- A. segmentation
- B. swapping
- C. pure demand paging
- D. multiple contiguous fixed partitions
- E. None of the above

17. While working with MS-DOS, which command will you use to transfer a specific file from one disk to another?

- A. DISKCOPY
- B. COPY
- C. RENAME
- D. FORMAT
- E. None of the above

  
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Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2 Fax: 080-28 372797

18. What is the name of the operating system for the laptop computer called MacLite?

- A. Windows
- B. DOS
- C. MS-DOS
- D. OZ
- E. None of the above

19. In which addressing mode the contents of a register specified in the instruction are first decremented, and then these contents are used as the effective address of the operands?

- A. index addressing
- B. indirect addressing
- C. auto increment
- D. auto decrement
- E. None of the above

20. What is the name given to the values that are automatically provided by software to reduce keystrokes and improve a computer user's productivity?

- A. Defined values
- B. Fixed values
- C. Default values
- D. Special values
- E. None of the above

21. Page stealing

- A. is a sign of an efficient system
- B. is taking page frames from other working sets
- C. should be the tuning goal
- D. is taking larger disk spaces for pages paged out



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Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

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E. None of the above

22. In MS-DOS 5.0, which is the number that acts as a code to uniquely identify the software product?

A. MS

B. DOS

C. MS DOS

D. 5.0

E. None of the above

23. Bug means

A. A logical error in a program

B. A difficult syntax error in a program

C. Documenting programs using an efficient documentation tool

D. All of the above

E. None of the above

24. Memory management is :

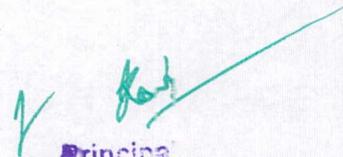
A. not used in modern operating system

B. replaced with virtual memory on current systems

C. not used on multiprogramming systems

D. critical for even the simplest operating systems

E. None of the above

  
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Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057



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Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

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25. The initial value of the semaphore that allows only one of the many processes to enter their critical sections, is

- A. 8
- B. 1
- C. 16
- D. 0
- E. None of the above

*Suma*  
**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

*R*  
**Principal**  
**Sapthagiri College of Engineering**  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

## SCHEME

1. Answer: Option B

2. Answer: Option C

Operating system (OS) is a collection of software that manages computer hardware resources and provides common services for computer programs.

3. Answer: Option D

4. Answer: Option A

5. Answer: Option A

6. Answer: Option A

For executing any program, CPU needs some data, it will first check main memory for that required data, if it is present in main memory then CPU will use it, otherwise CPU retrieves the data (also called as page) from Secondary memory into primary memory and then executes the program.

When this page swapping (some pages transferred from 2nd memory to 1st and vice versa) occur in such an extent that CPU only does this swapping work and leaves all the necessary execution, then this state is called THRASHING.

So pages which are needed for execution, if already present in main memory (that is no need to swap from secondary memory) then thrashing can be avoided [that's why answer is A].

One best solution is -> Increase the size of main memory.

7. Answer: Option B

8. Answer: Option A

9. Answer: Option C

In computing System generation or sysgen is the process of creating a particular unique instance of an operating system by combining user-specific options and parameters with manufacturer-supplied general-purpose program code to produce an operating system tailored for a particular hardware and software environment.

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Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057



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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

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Phone: 080-28 372800/1/2 Fax: 080-28 372797

10. Answer: Option C

11. Answer: Option A

12. Answer: Option C

13. Answer: Option A

A non-relocatable program is one which cannot be made to execute in any area of storage other than the one designated for it at the time of its coding or translation.

A relocatable program form is one which consists of a program and relevant information for its relocation. Using this information it is possible to relocate the program to execute from a storage area than the one designated for it at the time of its coding or translation.

14. Answer: Option D

15. Answer: Option C

16. Answer: Option A

17. Answer: Option B

18. Answer: Option D

19. Answer: Option D

20. Answer: Option C

21. Answer: Option B

Some Operating Systems periodically look for pages that have not been recently referenced and add them to the Free page queue, after paging them out if they have been modified.

22. Answer: Option D

23. Answer: Option A

24. Answer: Option D

25. Answer: Option B

A semaphore is a variable. Therefore, there are 2 types of semaphores:

*Principal*  
*Sapthagiri College of Engineering*  
*Chikkasandra, Hesaraghatta Road,*  
*Bangalore-560 057*



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(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

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Binary semaphores

Counting semaphores

Binary semaphores have 2 methods associated with it. (up, down / lock, unlock)

Binary semaphores can take only 2 values (0/1). They are used to acquire locks. When a resource is available, the process in charge set the semaphore to 1 else 0.

Counting Semaphore may have value to be greater than one, typically used to allocate resources from a pool of identical resources.

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
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Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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# Placement



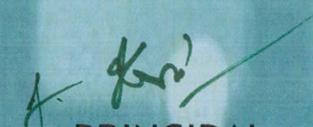
STUTI  
CAREER GUIDANCE AND PLACEMENT CELL

## CERTIFICATE OF PERFORMANCE

*THIS IS TO CERTIFY THAT*

*Mr/Ms \_\_\_\_\_ has participated in  
"Quantitative/ logical reasoning/verbal aptitude and soft skill training" form  
28/7/2016 to 4/8/2016 organized by STUTI Team.*

CONVENOR

  
PRINCIPAL

## REPORT ON QUANTITATIVE/ LOGICAL REASONING/VERBAL APTITUDE AND SOFT SKILL TRAINING

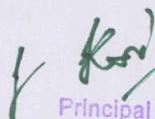
The STUTI Team had organized the training on Quantitative/logical reasoning/verbal aptitude and soft skill training from 28/7/2016 to 4/8/2016 and all the pre final year students attended the training program. The program was successfully organized and carried out by STUTI Team.

The training program covered the following domains

1. Communication skill
2. HR Skills
3. Group Discussion
4. Mock interview

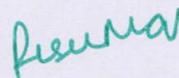


Discussion regarding Quantitative Aptitude, Logical reasoning, Verbal Aptitude and HR Skills

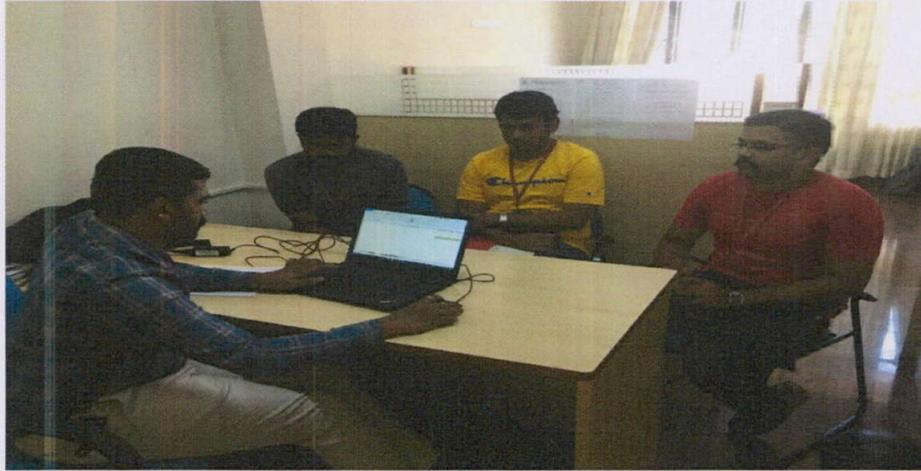


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Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057



**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre



Group Discussion regarding trending technologies.



Mock Interview done by the trainer for individual student.

*Suma*

CONVENOR

**SUMA VISHWANATH**  
Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

*[Signature]*

PRINCIPAL  
Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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SCE-2016-17

ent

## Payment Voucher

No. : 405

Dated : 21-Apr-2017

| Particulars                              | Amount      |
|--|-------------|
| Account :                                |             |
| M/s.Ladder Consultancy Services Pvt Ltd  | 9,05,175.00 |
| Agst Ref LCS/TS/590/02/17 9,05,175.00 Dr |             |
| Bank Charges                             | 58.00       |

Through :

TGMC-103091002852

On Account of :

being amount paid towards professional service charges for 1341 students vide Bill.No LCS/TS /590/02/17

Bank Transaction Details:

Yourselves-RTGS Ladder Consultancy Service Pvt Ltd,915020028364796  
, UTIB0000227

RTGS 21-Apr-2017 9,05,233.00

Amount (in words) :

INR Nine Lakh Five Thousand Two Hundred Thirty Three Only

₹ 9,05,233.00

Receiver's Signature:



Authorised Signatory

SCE-2016-17

## Contra Voucher

No. : 35

Dated : 21-Apr-2017

| Particulars          | Debit         | Credit        |
|----------------------|---------------|---------------|
| To TGMC-103091002852 |               | 1,00,575.00   |
| SBI- 30263521464 Dr  | 1,00,575.00   |               |
|                      | ₹ 1,00,575.00 | ₹ 1,00,575.00 |

On Account of :

Being towards transfer of funds ( tds on ladder consultancy services pvt ltd) vide Invoice.No LSC/TS /590/2/2017



Authorised Signatory

# SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST

# BANK PAYMENT/DEBIT VOUCHER

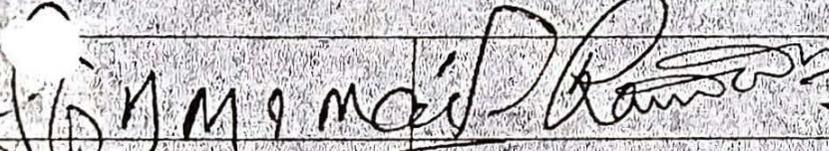
(Sapthagiri College of Engineering), # 619/G, 36th Cross, 2nd Block,,  
Rajajinagar, Bangalore - 560 010.

Date: 1-Sep-2016

| Account Head                                |  | DEBIT               | CREDIT              |
|---|--|---------------------|---------------------|
| By: M/s.Ladder Consultancy Services Pvt Ltd |  | Rs.                 | Rs.                 |
|   |  | 11,94,750.00        |                     |
| To: TGMC-103091002852                       |  |                     | 11,94,750.00        |
| <b>Total</b>                                |  | <b>11,94,750.00</b> | <b>11,94,750.00</b> |

**Rupees Eleven Lakh Ninety Four Thousand Seven Hundred Fifty Only.**

being amount paid towards placement training agaisnt Bill.No LCS/TS/577/08/16 (Placement for 7 sem students)

|                                    |  |   |  |                      |
|------------------------------------|--|---|--|----------------------|
| Ch No: 810587<br>Date: 24-Sep-2016 | <br>Receiver's Signature | <br>Prepared By | <br>Verified By | Authorised Signatory |
|------------------------------------|--|---|--|----------------------|